SIEMENS

Data sheet 3RV1011-1AA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 1.1...1.6 A N-release 21 A Screw terminal Standard switching capacity with transverse auxiliary switch 1 NO+1 NC

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV1
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	7.25 W
at AC in hot operating state per pole	2.4 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
mechanical service life (switching cycles)	
 of the main contacts typical 	100 000
of auxiliary contacts typical	100 000
electrical endurance (switching cycles) typical	100 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	01/01/2013
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-20 +60 °C
 during storage 	-50 +80 °C
 during transport 	
- damig tanoport	-50 +80 °C
relative humidity during operation	-50 +80 °C 10 95 %
relative humidity during operation	
relative humidity during operation Main circuit	10 95 %
relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the	10 95 % 3
relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release	10 95 % 3
relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage	10 95 % 3 1.1 1.6 A
relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value	10 95 % 3 1.1 1.6 A 20 690 V
relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum	10 95 % 3 1.1 1.6 A 20 690 V 690 V
relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum	10 95 % 3 1.1 1.6 A 20 690 V 690 V
relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value	10 95 % 3 1.1 1.6 A 20 690 V 690 V 690 V 50 60 Hz
relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value	10 95 % 3 1.1 1.6 A 20 690 V 690 V 690 V 50 60 Hz

operating power	
• at AC-3	
— at 230 V rated value	0.3 kW
— at 400 V rated value	0.55 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	0.8 kW
• at AC-3e	
— at 230 V rated value	0.3 kW
— at 400 V rated value	0.55 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	0.8 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
• note	1
number of NO contacts for auxiliary contacts	1
• note	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
• at 110 V	2 A
• at 120 V	2 A
• at 125 V	2 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	0.5 A
• at 24 V	1 A
• at 60 V	0.15 A
	0.1071
Protective and monitoring functions	
Protective and monitoring functions product function	No
Protective and monitoring functions product function • ground fault detection	No You
Protective and monitoring functions product function • ground fault detection • phase failure detection	Yes
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class	Yes CLASS 10
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release	Yes
Protective and monitoring functions product function	Yes CLASS 10 thermal
Protective and monitoring functions product function	Yes CLASS 10 thermal
product function	Yes CLASS 10 thermal 100 kA 100 kA
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value	Yes CLASS 10 thermal 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value	Yes CLASS 10 thermal 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 2 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 2 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 2 kA 100 kA 100 kA 2 kA 2 1 A 1.6 A 1.6 A 0.1 hp
Protective and monitoring functions product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 2 kA 100 kA 100 kA 2 kA 2 kA 2 1 A 1.6 A 1.6 A 1.6 A
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 2 kA 2 1 A 1.6 A 1.6 A

Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	
 for short-circuit protection of the auxiliary switch required 	fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
design of the fuse link for IT network for short-circuit protection of the main circuit	
● at 240 V	none required
● at 400 V	gL/gG 20 A
● at 500 V	gL/gG 20 A
● at 690 V	gL/gG 20 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
height	90 mm
width	45 mm
depth	75 mm
required spacing	
• for grounded parts at 400 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
• for live parts at 400 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
• for grounded parts at 500 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
• for live parts at 500 V	3 111111
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
	9 111111
• for grounded parts at 690 V	20
— downwards	20 mm
— upwards	20 mm
— backwards	0 mm
— at the side	9 mm
— forwards	0 mm
• for live parts at 690 V	00
— downwards	20 mm
— upwards	20 mm
— backwards	0 mm
— at the side	9 mm
— forwards	0 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
 for main contacts 	
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)
— solid or stranded— finely stranded with core end processing	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— finely stranded with core end processing	

tightening torque	
 for main contacts with screw-type terminals 	0.8 1.2 N·m
 for auxiliary contacts with screw-type terminals 	0.8 1.2 N·m
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	
for main contacts	M3
 of the auxiliary and control contacts 	M3
Safety related data	
B10 value	
 with high demand rate according to SN 31920 	5 000
proportion of dangerous failures	
 with low demand rate according to SN 31920 	50 %
 with high demand rate according to SN 31920 	50 %
failure rate [FIT]	
 with low demand rate according to SN 31920 	50 FIT
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
display version for switching status	Rocker switch
Certificates/ approvals	

de l'inicates, approvais

General Product Approval

For use in hazardous locations



Confirmation









IECEx

For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping







Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping













other

Railway

Miscellaneous

Confirmation



Special Test Certificate

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1011-1AA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-1AA15

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

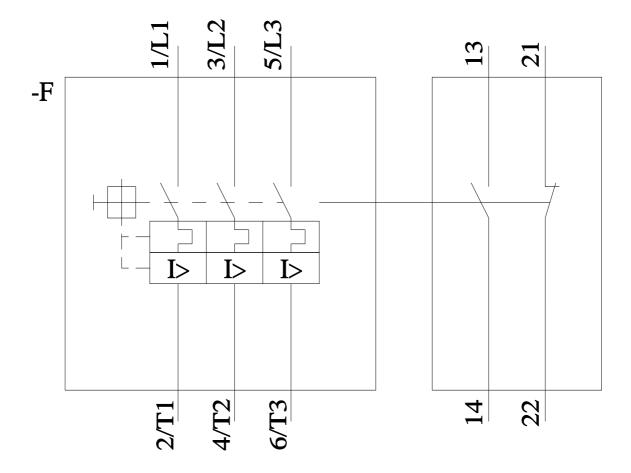
https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1AA15

 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-1AA15&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1AA15/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-1AA15&objecttype=14&gridview=view1



6/25/2022 last modified: